

BEGIN

"REAL"

# 54

BIRULYA, N.B.

Concerning the cartography of territories of natural focus infections of man in general and acarid-bite encephalitis in particular.  
Vop. ekol. 4:90-92 '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut meditsinskoy parazitologii  
Ministerstva zdavookhraneniya RSFSR, Rostov-na-Donu.  
(Encephalitis) (Animals as carriers of disease)

BIRULYA, N.B.; ZALUTSKAYA, L.I.

Warning up of the climate and outbreaks of tick-borne encephalitis.

Med. paraz. i paraz. bol. 34 no.3:265-271 My-Je '65.

(MIRA 18:7)

1. Rostovskiy nauchno-issledovatel'skiy institut medits'nsko  
parazitologii Ministerstva zdravookhraneniya RSFSR.

BIKULYA, O. K.

Mistsevi shliakhovi i budivel'ni materialy. Local roads and road materials.  
Kharkiv, Transport i zv'iazok, 1933. 54 p. diagrs.

DLC: TE200.B5

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress,  
Reference Department, Washington, 1952, Unclassified.

BIRULYA, N.B.; ZALUTSKAYA, L.I.

Taxonomic units in the classification of tickborne encephalitis.  
Med. paraz. i paraz.bol. 28 no.6:666-675 N-D '59. (MIRA 13:12)  
(ENCEPHALITIS) (TICKS AS CARRIERS OF DISEASE)

**Production of pearlitic iron under usual plant conditions**  
S. Nishiyama, *Lutetiae* *Iron* *8*, No. 10, 217, 1937. *Mit. Tsurumi* (in *Alkali & Alloys*) *8*, 355 (1938). Theoretical discussion supplemented with statistical study. Basic statements of Osann, connecting formation of pearlitic Fe with the dependence of eutectic composition on cooling speed, possibility of producing eutectoid structure with eutectic composition, and opposing action of Si and P, are fully supported by contemporary evidence when proper corrections are introduced in the terminology originally used. The results of plant production of a foundry were exact, in the limits of plant production of a foundry by Osann for directly con-  
flict of composition, tables proposed by Osann for analyzing pearlitic structure by selecting a proper analysis.  
The statistical method used convincingly demonstrated the correctness of this procedure. For the best results, Osann's tables can be amplified by introduction of the corrections for the casting temp. used, deviation of S and Mn from the standard and cooling efficiency as a function of the shape of the article cast. M. W. H.

M. W. B.

CA *Handwritten*

PRECISELY AND PROPERLY

The importance of the size of the pieces of coke in the smelting of pig iron in the cupola furnace. S. G. Birulya. *Latvian Delo* 9, No. 3, 14-17 (1938); *Chem. Zvesti.* 1938, II, 3147. Expts. on a plant scale showed that the temp. of the metal to be smelted is dependent on the size of the coke pieces; the smaller the pieces the more difficult it is to maintain the necessary smelting temp. Saving of fuel and reduction of waste, spoiled castings, etc., are made possible by the use of coke not less than 50 mm. in diam. M. G. Moore

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

15

Calculation of U. Janney System for Several Castings in One Mould.  
N. G. Blazyn (Litynskiy Izv., 1941, (2), 13-14). -- [In Russian.] In the calculation of runners, when making several castings in one mould, the area of cross-section of the runners  $f_1$  and the area of cross-section of the slag-trap  $f_2$  should not exceed the cross-sectional area of all feeders ( $\Sigma f_3$ ). As a first approximation  $f_1$  and  $f_2$  can be calculated according to the formulas  $f_1 = 2\sqrt{n} \cdot f_3$ ;  $f_2 = 1.5\sqrt{m} \cdot f_3$ , where  $n$  -- the number of castings in the mould and  $m$  -- the number of castings fed from the same slag-trap. -- N. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52



BIRULYA, V.I.

[Quick method of controlling the compacting of subgrade] Uskorenniy metod kontrolya uplotneniya zemliannogo polotna. Moskva, Izd-vo dorozhno-tekhn. lit-ry, 1953. 53 p.

(MLRA 6:8)

(Road construction)

DISCUSSION

Calculating the amount of bonding material for  
concrete. V. I. Budyka. *Trudy Khim. i Mekh. Stroy.  
Dorozh. Inst.* 1953, No. 13, 63-73; *Ref. Zh. Stroy.* 1954, No. 48784. — A method of calcg. the amt. of bonding  
in asphalt concrete from the make-up of other compo-  
is outlined. M. J. ...

BIRULYA, V.I.

Rapid method calculation of optimum moisture and density in  
packing cohesive soils. Rats.i isobr.predl.v stroi. no.57:17-19  
'53. (MLRA 7:2)  
(Soil mechanics)

BIRULYA, V. I.

"Investigation of the Compressing of Cohesive Soils for the Purpose of Road Construction." Cand Tech Sci, Khar'kov Automobile and Road Inst, Khar'kov, 1954. (RZhMekh, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

BIRULYA, V. I. Engr

"An Investigation of the Packing of Tenacious Soils for the Purpose of Road Building." Cand Tech Sci, Moscow Automobile & Road Inst imeni V. M. Molotov, 9 Dec 54. (VM, 30 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

BIRULYA, V.I.

BIRULYA, V.I., kand.tekhn.nauk.

Determining the moisture and density of soils without using special  
instruments. Avt.dor. 19 no.12:12-13 D '56. (MIRA 10:10)  
(Soil mechanics) (Road construction)

BIRULYA, Viktoriya Iosifovna; MOROZOV, V.I., red.; GALAKTIONOVA, Ye.N.,  
tekhn.red.

[Calculations and control of soil compaction] Raschet i kontrol'  
uplotneniia gruntov. Moskva, Nauchno-tekhn.izd-vo avtotransp.  
lit-ry, 1958. 73 p. (MIRA 12:1)  
(Road construction) (Soil stabilisation)

BABKOV, V.F., BILLEN'KIY, I.I., BIRULYA, A.K., prof. doktor tekhn. nauk,;  
BIRULYA, V.I., DADENKOV, Yu. N., ZAMAKHAYEV, M.S., KAZANSKIY, K.A.,  
KREMER, L.L., KUDRYAVTSEV, A.S., TERENETSKIY, K.S., MAL'KOVA,  
N.V., tekhn. red.

[Handbook for road construction engineers; planning highways]  
Spravochnik inzhenera-dorozhnika; proektirovanie avtomobil'nykh  
dorog. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1958. 438 p.  
(MIRA 11:10)

(Roads)



GORSKAYA, Ye.A., inzh.; BIRULYA, V.I., dotsent, kand. tekhn. nauk,  
rukovoditel' raboty.

Comparative efficiency of the action of a soil stabilizer on  
processed and unprocessed soils. Trudy Khar. avt.-dor. inst.  
no.28:76-80 '62. (MIRA 17:2)

CA

*Diagram*

1

Equipment for automatic regulation of refrigeration in-  
stallation. 2. *Diagram.* *Moskva Prom. 19, No. 3,*  
15-24 (1932).--Descriptions and diagrams are given for  
several control devices such as refrigeration unit controller,  
brine valve, water regulator, temperature regulator, and  
pressure regulators.  
G. M. Koudapoff

BIRULYA, YE.

Meat Industry

Equipment for enterprises in the meat industry  
Mias. ind. SSSR 23, no. 3, (1952)

BIRULYA, Ye.

Prospects of the expansion of the meat industry. Mias. ind.  
SSSR 34 no.5:7-11 '63. (MIRA 16:11)

1. Gosudarstvennyy komitet po pishchevoy promyshlennosti  
pri Gosplane SSSR, Upravleniye myasnoy i ptitsopererabaty-  
vayushchey promyshlennosti.

| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | PROCESSES AND PROPERTIES INDEX |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 100 AND 5TH ORDERS |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
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| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27                             | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53                 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| <p>Production of active amyl alcohol from fusel oil. A. M. Birup. <i>Nauch. Zapiski Inst. Natsionalno Khim. im. Plekhanova</i> 1938, No. 1, 120-30; <i>Khim. Referat. Zhur.</i> 2, No. 4, 137(1939).—The difference in the velocity of the chlorination of the active and the inactive amyl alc. was used for their sepn. The inactive amyl alc. is chlorinated 2.5 times faster, forming a chloride b. 101°. The chlorination expts. were performed by satg. amyl alc. (with <math>n_D^{20} = 1.4085</math>) with HCl under atm. pressure as well as in sealed tubes. In the 1st case the chloride was distd. off as soon as formed, in the 2nd case the alc. was satd. at 2 10° and heated in sealed tubes. After the process the chlorinated alc. was fractionated. A higher content of the active alc. was obtained from chlorination under pressure. To increase the yield of alc. it is not necessary to reach a complete satn. with HCl at room temp., but a highly active alc. with <math>n_D^{20} = 1.38</math> and cont. 75% of the active alc. was obtained from a comp. satn. Optimum conditions for the chlorination were 108-111° for 3-5 hrs. W. R. Henn</p> |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| <p>454-31.4 METALLOGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

Birun, A.M.

USSR/Organic Chemistry. Synthetic Organic Chemistry. E-2

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26910 K.

Author : Birun, A.M.

Inst : All-Union Civil Engineering Correspondence  
Institute.

Title : Textbook and Handbook of Organic Chemistry.

Orig Pub: Vses. zaoch. inzh.-stroit. in-t., M., 1956,  
149 str., ill.

Abstract: No abstract.

Card 1/1

VELICHKO, Anna Yevtikhiyevna; ~~BIRIN, A.M.~~, doktor khim. nauk, prof.,  
red.; FEDOROVA, T.P., red.; CHIZHEVSKIY, E.M., tekhn. red.

[Laboratory work in quantitative analysis] Praktikum po ko-  
lichestvennomu analizu. [n.p.] Rosvuzizdat, 1963. 110 p.  
(MIRA 16:8)

(Chemistry, Analytical--Laboratory manuals)

PANTELEYMONOV, L.A.; BIRUM, N.A.; GUBIYEVA, D.N.

Fusion temperature of iron-nickel-palladium alloys. Zhur.  
neorg.khim. 5 no.7:1635-1637 J1 '60.

(MIRA 13:7)

(Iron-nickel-palladium alloys)



88594

18.1285

S/078/60/005/011/004/025  
B015/B060

AUTHORS: Rudnitskiy, A. A. (Deceased), Birun, N. A.

TITLE: Constitution Diagram of the Titanium - Palladium System

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 11,  
pp. 2414-2421

TEXT: The palladium - titanium system was studied by the methods of thermal analysis, microstructure, hardness, thermo-emf, electrical resistance and its temperature coefficients, and, finally, resistivity and tensile tests. A total of 17 alloys were tested. The results of the thermal analysis made with a Kurnakov pyrometer (Table 1) and the constitution diagram (Fig. 1) show that titanium with palladium forms solid solutions and a eutectic, and that the Pd<sub>2</sub>Ti compound results from two solid  $\gamma$ - and  $\beta$ -solutions at 1040°C. When the temperature drops to 620°C the  $\beta$ -solution is dissociated by a eutectoid reaction. The Ti-Pd alloys are crystallized to form a eutectic at 60 atom% Ti and at 1160°C. The microstructure of the alloys was studied on cast specimens annealed

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88594

Constitution Diagram of the Titanium -  
Palladium SystemS/078/60/005/011/004/025  
B015/B060

at 1000° and 800°C (Figs. 2-5, pictures of microstructures). At room temperature, the region of the  $\delta$ -phase formed on the basis of  $\text{Pd}_2\text{Ti}$  lies roughly between 20 and 50 atom% titanium. At the temperature of the eutectic, about 20 atom% titanium are solved in palladium. Solubility drops with temperature and is less than 5 atom% Ti at room temperature. On the other hand, the solubility of palladium in titanium at the temperature of the eutectic is about 30 atom% palladium. The eutectoid composition ranges between 70 and 80 atom% titanium. The solubility of palladium in titanium is less than 3 atom% palladium at room temperature. Investigations of the properties of annealed and hardened specimens revealed that the hardness according to Vickers rises in annealed specimens with small additions of Ti to Pd (Table 2) to attain the maximum at the limit of solubility of Ti in Pd. A similar course is observed by the thermo-emf curve which goes likewise through a maximum at the said limit of solubility. In hardened specimens, the maximum of hardness is attained at 22 atom% titanium. A minimum of hardness is observable in both specimen types at a composition corresponding to  $\text{Pd}_2\text{Ti}$ . The values of measurement (Table 3) of electrical resistance of

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Constitution Diagram of the Titanium -  
Palladium System

S/078/60/005/011/004/025  
B015/B060

the temperature coefficient and the tensile strength of annealed specimens show that small additions of Ti to Pd strongly reduce the temperature coefficient of Pd, while increasing the electrical resistance many times. Additions of 5-6% Ti effect a maximum increase by doubling the tensile strength of palladium. The compounds  $\text{PdTi}_2$  and  $\text{Pd}_3\text{Ti}_2$  assumed by Laves and Wallbaum (Ref. 1), and the  $\text{Pd}_3\text{Ti}$  found by Nishimura and Hiratatsa (Ref. 3) could not be identified. There are 1 figures, 3 tables, and 3 non-Soviet references.

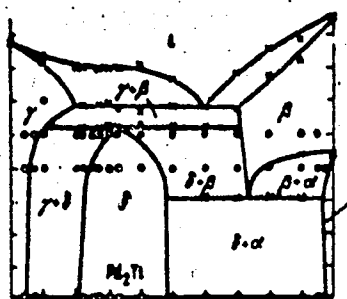
SUBMITTED: . October 23, 1959

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30

88594

S/078/60/005/011/004/025  
B015/B060



Ti atomic %

Card 4/4

RUDNITSKIY, A.A. [deceased]; BIRUN, N.A.

Aging of platinum-silver alloys rich in platinum. Zhur.neorg.khim.  
6 no.6:1342-1346 Je '61. (MIRA 14:11)  
(Platinum-silver alloys)

18-1235

25513

S/078/61/006/008/012/018  
B127/B220

AUTHORS: Savitskiy, Ye. M., Terekhova, V. F., Birun, N. A.

TITLE: Phase diagram of the system ruthenium-chromium

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 8, 1961, 1960-1962

TEXT: This system was studied in order to find out the physico-chemical interaction between chromium and an element of group VIII, particularly because the favorable effect of ruthenium on the temperature decrease occurring when chromium changes from the brittle to the plastic state was known. From the literature it is evident that the following ruthenium-chromium compounds are known:  $\delta$ -phase of the composition  $\text{Cr}_2\text{Ru}$ , a phase

$\text{Cr}_3\text{Ru}$  crystallizing according to type  $\beta$ -W, and a phase with unknown lattice of the probable composition  $\text{Cr}_4\text{Ru}$ . The solubility of chromium in ruthenium is 50at% and that of ruthenium in chromium 26at%. Electrolytically precipitated pure chromium and ruthenium of 99.8% purity were used for preparing the alloys. They were fused in an arc furnace with tungsten electrodes and in a helium atmosphere. The melting temperature

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25513

S/078/61/006/008/012/018  
B127/B220

Phase diagram of the...

was determined by the capillary method in an argon atmosphere. Gradual tempering was effected as follows: 100°C:100 hr; 900°C:75 hr; and 700°C:75 hr. Then, the mass was left to cool in the furnace. For tempering the alloys were maintained 20 hr at 1200°C, 24 hr at 1000°C, and 48 hr at 800°C in evacuated quartz ampullae with subsequent tempering in cooled ampullae. Hardness was measured with a Vickers apparatus at a pressure of 10 kg, and microhardness with a ПМТ-3 (PMT-3) apparatus at a pressure of 100 g. The test results (melting point, microstructure and x-ray analysis, hardness and microhardness, thermo-emf) are shown in Fig. 1. According to E. I. Gradyshvskiy, the compound  $\text{Cr}_3\text{Ru}$  has a  $\beta$ -W lattice with  $a = 4.673$

Å. The hardness of the alloy increases with increasing content of ruthenium from 150 kg/mm<sup>2</sup> to 500 kg/mm<sup>2</sup> for alloys with 40% of ruthenium. The first crystals of the  $\alpha$ -phase were observed at 1470°C. The parameters obtained for the  $\delta$ -phase are:  $a = 9.10$  Å,  $c = 4.66$  Å,  $c/a = 0.513$ . The hardness of the alloy with 50% by weight of Ru (34 at.%) varied between 600 and 1000 kg/mm<sup>2</sup>, and the microhardness was 1200 kg/mm<sup>2</sup>. There are 2 figures and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ref. 6: P. Greenfield, P. Beck. J. Metals. February, 1956.

Card 2/3

S/078/62/007/010/002/008  
B144/B186

AUTHORS: Savitskiy, Ye. M., Terekhova, V. F., Birun, N. A.

TITLE: Phase diagram of the magnesium-palladium system

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 10, 1962, 2367-2373

TEXT: A complete phase diagram of the Mg - Pd system (Fig. 2) was established, based on thermal, microstructural and X-ray diffraction analyses and on the determination of specific weight, hardness, and micro-hardness. The specific weight of the alloys increases up to a Pd content of 50% by weight, at first slowly and then rapidly. The microstructural analysis shows that the solubility of Pd in Mg does not exceed 0.55% by weight at room temperature and is ~1% by weight at the eutectic. The solubility of Mg in Pd is ~6% by weight at the eutectic, and 5% at room temperature. The compound  $MgPd_3$  found by R. Ferro (J. Metals, 1, 424 (1959)) by microstructural and X-ray analyses was not confirmed. X-ray diffraction analysis of samples, annealed at 400°C for 250 hrs, revealed that  $Mg_6Pd$  has a cubic lattice with  $a = 10.0$  kX and proved the existence

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S/078/62/007/010/002/008  
B144/B186

Phase diagram of the...

of  $Mg_4Pd$  and  $MgPd$ . The structure of the other compounds remains to be elucidated. The Brinell hardness increased up to 230 with a Pd content of 39% by weight; it could not be measured from 39 to 87% because of the brittleness of the alloys, and it decreased from 218 to 101 when the Pd content was increased from 87 to 92% by weight. Microhardness ranged from 180 - 260  $kg/mm^2$ . Conclusion: The system is made up of 5 chemical compounds whereof 3 are formed by peritectic reactions, namely:  $Mg_6Pd$ ,  $Mg_4Pd$ , and  $Mg_3Pd$ .  $Mg_2Pd_3$  melts congruently at  $1350 \pm 10^\circ C$ . When the temperature is reduced,  $MgPd$  forms at  $700 \pm 10^\circ C$  from  $Mg_3Pd$  and  $Mg_2Pd_3$ . There are 5 figures and 2 tables.

SUBMITTED: January 16, 1962

Fig. 2. Phase diagram of the Mg - Pd system.  
Legend: (a) Pd, % by weight; (b) Pd, at.-%.

Card 2/02

TIMOFEEVA, Z.A.; BIRUN, N.A.

Platinum-silver alloys used in the manufacture of electric  
instruments. Iss. tekhn. no. 5244-45 My'64 (MIRA 1787)

BIRUYKOVA, R.N.

"Problems in demographic and sanitation statistics" by S.A.  
Novosel'skii. Reviewed by R.N.Birukova. Sov.zdrav. 18  
no.7:47-48 '59. (MIRA 12:9)  
(PUBLIC HEALTH--STATISTICS) (NOVOSEL'SKII, S.A.)

BIRVIS, A.

"Law of Mining of Despot Stefan Lazarevic" by Nikola Radojevic.  
Reviewed by A. Birvis. Rudar glasnik no.1: 82-83: 163.

BIRVIS, A.

~~SECRET~~

"Organization and planning of construction works in mining enterprises" by P.V.Nagubin. Reviewed by A.Birvis. Rudar glasnik no.4: 101-102 '63.

"Routing technical information." Reviewed by A.Birvis.  
105-106

BIRVIS, A.

"Public opinion and coal" by R. M. Flemming. Reviewed  
by A. Birvis. Rudar glasnik 1 111-112 '64.

BIRVIS, A.

"French-Russian dictionary of mining" by L.I. Baron and  
N.N. Ershov. Reviewed by A. Birvis. Rudar glasnik 2:115-  
116 '64.

"Handbook on combustible slates" by M.M. Barshchevskiy.  
Reviewed by A. Birvis. Ibid.:116-118

BIRYLOV, O., inzh.

Concrete made with sawdust is a long-lasting wall material.  
Sil'. bud. 11 no. 10:20 0 '61. (MIRA 14:11)  
(Concrete walls)  
(Lightweight concrete)



BIRYLOV, O.

Warm floors in swine houses. Sil'.bud. 12 no.9:12 S '62.

(MIRA 15:11)

1. Glavnyy inzh. sektora stroitel'nykh materialov Krasnodarskogo  
filiala Nauchno-issledovatel'skogo instituta sel'skogo stroitel'stva  
RSFSR.

(Swine houses and equipment)

SOV/44 - 58 - 4 - 3204

Translation from: Referativnyy zhurnal, Matematika, 1958, Nr 4,  
p 121 (USSR)

AUTHOR: Biryuchevskiy, N. D.

TITLE: Projective Theory of Devices for Drawing Perspective  
and Axonometric Representations (Proyektivnaya teoriya  
priborov dlya vycherchivaniya perspektivnykh i aksonometri-  
cheskikh izobrazheniy)

PERIODICAL: Sb. Tr. nauchn. konferentsii. Nr 1, Kemerovo, 1957,  
pp 297 - 305

ABSTRACT: Constructions of devices for drawing perspective and  
axonometric representations are worked out by the author. On  
the basis of the devices a new method of constructing visual  
representations is proposed, based on homologic transformations  
of an identical representation of a given object to perspective  
or axonometric. By an identical transformation is understood a

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SOV/44 - 58 - 4 - 3204

superimposed orthogonal projection of a perspective representation of an object on the bisecting plane of the second and fourth quadrants (this plane is called the identity plane). The homology, which transforms the identity representation to the perspective, is given by means of the triangle of traces of the projection plane and its projections on the identity plane. By this the perspective of any point is found as the point of the intersection of straight lines, homologous to the orthogonal projections of a ray which passes through a given point and the point of view. The related correspondence, which transforms the identity representation to an axonometric one, is established analogously. The devices based on such transformations are simple in construction, they have no guide pins, and a visual representation is constructed by points.

V. N. Zhuravleva

Card 2/2

YABROV, B. (g.Lugansk); BIRYUCHINSKIY, F. (g.Lugansk)

Let's produce more shoes. Prem. keep. 12 no.7:9 J1 '58.

(MIRA 11:8)

1. Tekhnoruk arteli "Remobuy" (for Yabrov).. 2. Sekretar' partiynoy  
organizatsii (for Biryuchinskiy).  
(Lugansk--Shoe industry)

*BIRYUCHKOV, M.V.*

SUBJECT: USSR/Religion

25-6-18/46

AUTHOR: Biryuchkov, M.V.

TITLE: There is Nothing Supernatural ... (Net nichego sverkh-  
yestestvennogo)

PERIODICAL: Nauka i Zhizn' - June 1957, #6, pp 39-40 (USSR)

ABSTRACT: This article deals with the so called "Petrashevtsy" movement during the 1840-s in Russia. It was named after M.V. Butashevich-Petrashevskiy, one of the founders of this political circle that propagated democratic ideas, fought for the abolition of slavery and wanted to establish a republican regime. In a book published in 1845, members of this circle attacked the church for its reactionary tendencies. Religion was considered harmful, since it did not permit people to penetrate into the true origin of social inequality. For that reason the spreading of knowledge was recommended which would ultimately help people to realize that they all have equal rights.

The article contains one picture.

Card 1/2

TITLE: There is Nothing Supernatural ... (Net nichego sverkh  
yestestvennogo) 25-6-18/46

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

BIRYUCHKOV, Yu.V.

Some data on the conduction paths of the optic analyzer. Biul.  
eksp. biol. i med. 59 no.4:111-113 Ap '65.

(MIRA 18:5)

1. Laboratoriya anatomii nervnoy sistemy (zav. - prof. S.B.  
Dzugayeva) Instituta mozga (dir. - deystvitel'nyy chlen AMN  
SSSR prof. S.A. Sarkisov) AMN SSSR, Moskva.

BIRYUCHKOV, Yu.V.

Optic nerve in man and some mammals. Arkh. anat. gist. i embr.  
45 no.11:46-52 N '63. (MIRA 17:8)

1. Laboratoriya anatomii nervnoy sistemy (zav. - prof. S.B.  
Dzugayeva) Instituta mozga AMN SSSR, Moskva. Adres avtora:  
Moskva, B-120, pereulok Obukha, 5.



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U S S R .

2272. Biryuk, G. I., On the existence of almost periodic solutions of nonlinear systems with a small parameter in the case of degeneration (in Russian), *Doklady Akad. Nauk SSSR (N.S.)* 97, 577-579, 1954.

Author considers the problem of determining the almost-periodic solution of the nonlinear system

$$dx/dt = Ax + \epsilon f(x, t)$$

in the case where  $f(x, t)$  is an almost-periodic solution of  $t$  uniformly in  $x$  and where  $A$  possesses characteristic roots with zero real part. Under certain assumptions, he is able to show that the formal solution, obtained as a power series in  $\epsilon$ , is an actual solution.

R. Bellman, USA

66718

16(1)

AUTHORS: Davidenko, D.F., Biryuk, G.I.

SOV/20-129-2-3/66

TITLE: On the Solution of the Dirichlet Interior Problem for the Laplace Equation by the Use of Nets

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 2, pp 246-249 (USSR)

ABSTRACT: The method proposed by the authors [Ref 1] for the solution of the axialsymmetric Dirichlet problem for the Laplace equation is applied to the plane Dirichlet problem. Especially for the case of a quadratic net with the step  $h$  the authors set up a 9-point-difference equation for an arbitrary knot; the error has the order of  $h^5$ . For internal knots the well-known result of Sh.Ye.Mikeladze [Ref 2] is obtained. There are 4 Soviet references.

PRESENTED: July 6, 1959, by S.L.Sobolev, Academician

SUBMITTED: June 16, 1959

Card 1/1

SAUL'YEV, Vladislav Kliment'yevich; LYUSTERNIK, L.A., red.; BIRYUK,  
G.I., red.; KRYUCHKOVA, V.N., tekhn.red.

[Integration of parabolic equations by the lattice method]  
Integrirovaniye uravnenii parabolicheskogo tipa metodom setok.  
Pod red. L.A.Lyusternika. Moskva, Gos.isd-vo fiziko-matem.  
lit-ry, 1960. 324 p. (MIRA 13:7)  
(Equations)

DEMIDOVICH, Boris Pavlovich; MARON, Isaak Abramovich; SMOLITSKIY, Kh.L.,  
prof., retsenzent; FROLOV, S.V., dotsent, retsenzent; SHOSTAK, R.Ya.,  
retsenzent; YUSHKEVICH, A.A., retsenzent; BIRYUK, G.I., red.;  
AKHILAMOV, S.N., tekhn.red.

[Principles of computer mathematics] Osnovy vychislitel'noi mate-  
matiki. Pod obshchei red. B.P.Demidovicha. Moskva, Gos.izd-vo  
fiziko-matem.lit-ry, 1960. 659 p. (MIRA 14:4)  
(Mathematics)

D. /

GODUNOV, Sergey Konstantinovich; RYABEN'KIY, Viktor Solomonovich.  
Prinimali uchastiye: BAKHVALOV, N.S.; KRYLOV, V.Yu.;  
BIRYUK, G.I., red.; PLAKSH, L.Yu., tekhn. red.

[Introduction to the theory of different systems] Vvedenie v  
teoriju raznostnykh skhem. Moskva, Fizmatgiz, 1962. 340 p.  
(MIRA 16:1)  
(Difference equations) (Operators (Mathematics))

DEMIDOVICH, Boris Pavlovich; MARON, Isaak Abramovich; SHUVALOVA,  
Emma Zinov'yeva; LEVITAN, B.M., prof., retsenzents;  
SMOLITSKIY, Kh.L., prof., retsenzents; BIRYUK, G.I., red.;  
AKHILAMOV, S.N., tekhn. red.

[Numerical methods of analysis; approximation of functions,  
differential equations] Chislennyye metody analiza; priblizhe-  
nie funktsii, differentsial'nye uravneniya. Pod red. B.P.  
Demidovicha. Moskva, Gos. izd-vo fiziko-matem. lit-ry,  
1962. 367 p. (MIRA 15:4)  
(Functions) (Differential equations)

DEMIDOVICH, Boris Pavlovich; MARON, Isaak Abramovich; BIRYUK, G.I., red.;  
AKHLAMOV, S.N., tekhn. red.

[Principles of computer mathematics] Osnovy vychislitel'noi  
matematiki. 2. izd., ispr. Moskva, Fizmatgiz, 1963. 659 p.  
(Electronic computers) (Mathematics) (MIRA 16:6)



BIRYUK, L.A., inzh.

Fastening rail patterns and frames in building up concrete pavements. Avi.dov. 28 no.3:18 Mr '65. (MIRA 18:5)

FORTUNATOV, N.S.; FOKINA, Z.A.; KOPA, M.V.; BIRYUK, L.I.

Interaction of tetrachlorides of elements of group IV with sulfur  
monochloride. Ukr.khim.zhur. 31 no.2:148-153 '65.

(MIRA 18:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

FARTUNATOV, N.S.; KUBLANOVSKIY, V.S.; BIRYUK, L.I.

Interaction in the system pentavalent antimony - sulfur chloride.  
Ukr. khim. zhur. 31 no.8:817-820 '65. (MIRA 18:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

BIRYUK, V., inzh.-mekhanik

Modern arrangement of smokestacks on ships. Mor. flot. 24  
no.11:44-45 N '64.  
(MIRA 18:8)

BIRYUK, V., inzh.-mekhanik

Air-cooling system of marine electric generators. Mor. flot  
25 no.10:31-32 0 '65.  
(MIRA 18:11)

BIRYUK, V.S., inzhener.

Replacing the bronze jacketting of propeller shafts (deadwood) by  
rubber. Sudostroenie 23 no. 5:54-56 My '57. (MLRA 10:6)  
(Shaft and shafting)

BIRYUK, V.S., inzh.

Investigating models of smokestacks. Sudostroenie 24 no.9:28-33  
S '58. (MIRA 11:11)

(Flues--Testing)

BIRYUK, V.S., inzh.

Machineshops on ships. Sudostroenie 26 no.6:49-54  
Je '60. (MIRA 13:7)  
(Marine engineering) (Machineshops)



BIRYUK, V.S., inzh.

Smoke ejector on the funnel of the tanker "Peking." Sudostroenie  
26 no.12:13-15 D '60. (MIRA 13:11)  
(Naval architecture)

BIRYUK, Vladimir Sergeyevich; MOISEYEV, Anatoliy Aleksandrovich, doktor  
tekhn. nauk, prof., retsenzent; NEDELIN, N.K., nauchnyy red.;  
OZEROVA, Z.V., red.; KOROVENKO, Yu.N., tekhn. red.

[Construction and design of marine shaft turning gear] Konstruiro-  
vanie i raschet sudovykh valopovorotnykh ustroystv. Leningrad, Gos.  
soiuznoe izd-vo sudostroitel. promyshl., 1961. 123 p.

(Ship propulsion)

(Shafting)

(MIRA 14:8)

BIRYUK, V.S., inzh.

Optical device for observations on boiler smokiness from  
the boiler room. Sudostroenie 27 no.6:63-64 Je '61.  
(Boilers, Marine) (MIRA 14:6)

BIRYUK, V., inzh.-mekhanik

In defense of screw-cutting lathe operators on ships.  
Mor.flot 22 no.1:37 Ja '62. (MIRA 15:1)  
(Ships—Maintenance and repair)

BIRYUK, V.S., inzh.

Repair shops on fishing craft. Sudostroenie 28 no.3:46-50  
Mr '62. (MIRA 15:4)  
(Trawls and trawling) (Ships--Maintenance and repair)

BIRYUK, V.S., inzh.

Combination-type damper and spark extinguisher. Sudostroenie 28 no.5:33  
34799'62. (MIRA 15:7)

(Ships—Fires and fire prevention)

BIRYUK, Vladimir Sergeyevich; GLUSHCHENKO, S.G., inzh., ratsenzent;  
SMIRNOV, B.I., inzh., ratsenzent; POPILOV, L.Ya., nauchn.  
red.; NIKITINA, R.D., red.; KOROVENKO, Yu.N., tekhn. red.

[Repair shops aboard ships] Sudovye masterskie. Leningrad,  
Sudpromgiz, 1963. 138 p. (MIRA 16:9)  
(Ships—Maintenance and repair)

BIRYUK, V., inzh.-mekhanik

Metal-fitting and electric engineering shops on the tank vessel  
"Sofila." Mor. flot 23 no.3:31-32 1963. (MIRA 16:3)  
(Tank vessels—Maintenance and repair)  
(Electricity on ships)



BIRYUK, Vladimir Sergeyevich; ABRAMOVICH, S.F., doktor tekhn.  
nauk, prof., retsenzent; SUSLIN, A.I., kand. tekhn.  
nauk, retsenzent; ALYAMOVSKIY, M.I., nauchn. red.

[Smoke abatement in seagoing ships] Bor'ba s zadymleniem  
morskikh sudov. Leningrad, Sudostroenie, 1964. 169 p.  
(MIRA 18:2)

BIRYUK, V.S., inzh.

Winding machine for electric engineering shops on ships.  
Sudostroenie 30 no.10:55-56 0 '64.

(MIRA 17:12)

BIRYUK, V.S.

Air conduits of a boiler. Sudostroenie no.8:29-30 Ag '65.  
(MIFA 18:9)

BIRYUKHOV, M.L.; (Reviewed by)

Brain - Tumors

"Histogenesis, histology, and topography of brain tumors. Part I. Introduction. Neuroectodermal tumors."

L.I. Smirnov. Reviewed by the above

Vop. neirokhir. 16, no. 1, 1952

**BIRYUKOV, A.**

**Electric saw for animal thoraxes. Mias.ind. SSSR. 25 no.4:59  
'54. (MIRA 7:8)**

- 1. Voroshilovgradskiy myasokombinat.  
(Meat cutting)**

BIRYUKOV, A.

~~Subject: Rapid method of repairing elevators.~~

Rapid method of repairing elevators. Mias.ind.SSSR 25 no.5:58  
'54. (MLRA 7:11)

1. Voroshilovgradkiy myasokombinat.  
(Elevators)

BABKIN, V.; BIRYUKOV, A.

Seven minutes in the air. Av.i kosm. 46 no.7:75-78 J1 '63.  
(MIRA 16:8)

(Parachuting)

BIRYUKOV, A.; MILLER, L.

An institute working without sufficient output. Stroil. mat. izdel.  
i konstr. 1 no.5:33-35 My'55. (MIRA 8:11)

1. Glavnyy inzhener tresta "Santekhpriber" (for Biryukov) 2. Nachal'-  
nik tekhnicheskogo otdela (for Miller).  
(Sanitary engineering)



BIRYUKOV, Arkadiy

Wishes of Urals Horticulturists (By horticulturist Arkadiy Biryukov.)  
(Letter to the editor)

Soviet Source: Izvestia  
Oct. 24, p. 2.

BIRYUKOV, A.

New technology on Moscow construction sites. Zhil.stroi.  
no.12:2-5 '59. (MIRA 13:4)

1. Zaveduyushchiy otdelom stroitel'stva i stroitel'nykh  
materialov Moskovskogo gorodskogo komiteta Kommunisticheskoy  
partii Sovetskogo Soyusa.  
(Moscow--Precast concrete construction)

BIRYUKOV, A.

Modern television sets. Tekh. est. 2 no. 10:12-B 0 '65  
(MIRA 19:1)

1. Nachal'nik konstruktorskogo otdela Vsesoyuznogo nauchno-  
issledovatel'skogo instituta priyemno-televizionnoy tekhniki.

1. ULITIN, M.N.; BIRYUKOV, A.A.
2. USSR (600)
4. Dies (Metal-Working)
7. Electric spark method for readying and repairing forging dies, M.N. Ulitin, Eng. A. A. Biryukov, Sel'khoz mashina no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

*BIRYUKOV*

ACHKINAZI, S., insh.-polkovnik; GAYENKO, A., insh.-polkovnik; SHCHERBAN', V.,  
insh.-podpolkovnik; ANIKOVICH, B., kapitan tekhn. sluzhby;  
KUZNETSOV, A., insh.-kapitan; BIRYUKOV, A., starshiy insh.-leytenant.

Experience in using a standard kit of universal accessories. Tankist  
no.2:57-60 F '58. (MIRA 11:3)  
(Tanks (Military science)--Maintenance and repair)

9 (2)

SOV/112-57-5-10496

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 137 (USSR)

**AUTHOR:** Biryukov, A. A.

**TITLE:** Electronics at the Service of Production (An Exhibition of Electric-Measuring and Electronic Instruments Made in the Hungarian People's Republic)  
(Elektronika na sluzhbe proizvodstva. O vystavke elektroizmeritel'nykh i elektronnykh priborov proizvodstva Vengerskoy Narodnoy Respubliki)

**PERIODICAL:** Vestn. tekhn. inform. M-vo trakt. i s.-kh. mashinostr. USSR, 1956, Nr 4, pp 42-48

**ABSTRACT:** Bibliographic entry.

Card 1/1

BIRYUKOV, A.A.; LUKIN, V.D.; FEDOROVA, R.Ye.

India ink for making proofreader's corrections on "viniprose"  
positives. Geod. 1 kart. no. 11:62 N '60. (MIRA 13:12)  
(Map printing) (India ink)

BIRYUKOV, A.A.

Portable apparatus for drilling bone and the insertion of a pin.  
Ortop., travm.i protez. 23 no.5:73-74 My '62. (MIRA 15:11)

1. Iz travmatologicheskogo otdeleniya (zav. - Z.A. Shilyayeva)  
g. Rubtsovskaya.  
(ORTHOPEDIC APPARATUS) (INTERNAL FIXATION IN FRACTURES)



**BIRYUKOV, A.A.**

The "Polibon" bath tub. Vod. i san.tekh. no.6:34-35 S'55.  
(Bathrooms) (MLRA 9:1)

*Biryukov, A.A.*

**KOLOMIYTSYV, A.O.; BIRYUKOV, A.A.**

Spiral coil air heaters. Ved. 1 san. tekhn. no.7:25-27 0 '55.  
(Hot-air heating) (MLRA 9:2)

**BIRYUKOV, A.A.**

**Standard design for central air conditioning systems. Vol.1**  
**san.tekh. no.8:2-6 N '55. (MLRA 9:3)**  
**(Air conditioning--Equipment and supplies)**

**BIRYUKOV, A.A.**

Combination mixer faucets. Vod.1 san.tekh. no.8:32 N '55.

(MLRA 9:3)

(Sweden--Faucets)

BIRYUKOV, A.A.

On the quality of plumbing equipment. Ved.1 san.tekh.no.5:29-32  
Ny '56. (MIRA 9:9)

1.Glavnyy inzhener tresta Santekhpribor.  
(Plumbing—Equipment and supplies)

BIRYUKOV, A.A.; GOL'DBERG, S.M.

Results of the growth of the sanitary engineering industry  
during the last 40 years. Vod. 1 san. tekhn. no.11:1-7 N '57.  
(MIRA 10:12)

(Sanitary engineering—History)

BIRYUKOV, A.A.

For further development of the production of sanitary engineering equipment. Vod. 1 san.tekh. no.1:1-4 Ja '59.

(MIRA 12:1)

(Domestic engineering--Equipment and supplies)

BIRYUKOV, A.

Following a course of prefabrication and technical progress.  
Zhil. stroi. no.10:2-6 0 '61. (MIRA 14:10)

1. Sekretar' moskovskogo gorodskogo komiteta Kommunisticheskoy  
partii Sovetskogo Soyuza.  
(Moscow—Construction industry)  
(Moscow—Apartment houses)



BIRYUKOV, A., inzh.

Let's expand the production of sanitary engineering equipment.  
Zhil. stroi. no.10:18-19 0 '61. (KIMA 14:10)  
(Plumbing--Equipment and supplies)

BIRYUKOV, A.A.

New sanitary-engineering equipment. Vod. i san. tekhn.  
no.8:36-37 Ag '62. (MIRA 15:9)

(Moscow--Exhibitions)  
(Sanitary engineering--Equipment and supplies)

BIRYUKOV, A.A., inzh.; IGNAT'YEV, N.A., inzh.

Results achieved by the sanitary engineering industry in four  
years of the seven-year plan. Vod.i san.tekh. no.2:1-3 P '63.  
(MIRA 16:2)

(Sanitary engineering)

POPOVICHEVA, N.K.; BIRYUKOV, A.A.; SHLENSKAYA, V.I.

Determination of the stability constants of palladium (II)  
bromide complexes. Zhur. neorg. khim. 9 no.6:1482-1483 Je '63  
(MIRA 17:8)